

```
>>My favorite was the two repeater users in Stockton on a local repeater.  Ham 1
```

>>said "I wonder if we can talk to each other simplex?" Ham 2 " I don't know  
>>let's try" Ham 1 " How do we do it?" Ham 2 "Just hit the the reverse  
>>button." I eventually felt pity for them and helped explain how it worked for  
>>them and they were able to reach each other simplex but you really have to  
>>wonder how some people's minds work.

>I will often use the reverse function to tell if another amateur is  
>within simplex range while he/she is transmitting. That's a perfectly  
>valid way of determining whether simplex is an option. Holding a  
>conversation on the repeater output however is definitely questionable  
>behavior.

Guess, I wasn't really clear they BOTH hit "reverse" this doesn't work nearly  
as well. :-)

>PS.. The only arms that Slick and Tonto want you to keep are the ones  
>attached to you at the shoulder.

Sadly, I think you are more honest about their motives than they are, but why  
should this be any different than the tales about everything else they "stand  
for. :-)

cheers,  
Dan

=====  
Dan Todd ddtodd@ucdavis.edu KC6UUD

-----  
Bill Clinton and Al Gore know that the Constitution guarantees  
an individuals basic right to keep and bear arms, and they  
will uphold that right. - Whitehouse Position Paper

=====

-----  
Date: 18 Apr 1994 10:49:22 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!zaphod.crihan.fr!jussieu.fr!  
univ-lyon1.fr!elendir@network.ucsd.edu  
Subject: 2 meters propa  
To: info-hams@ucsd.edu

Hello !

I was wondering if there were any means to forecast VHF or UHF propag.  
conditions. I understand much of it is rather unpredictable, but ...

Thanks,  
Vince.

--

PSG --- Paris SG football club. | Ham radio call : F1RCS

-----  
ENST - Ecole Nationale Supérieure des Telecommunications, Paris, France

-----  
Date: 18 Apr 1994 12:45:49 GMT  
From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!cleveland.Freenet.Edu!  
co128@network.ucsd.edu  
Subject: 2 meters propa  
To: info-hams@ucsd.edu

Unpredictable is correct. Most propagation conditions on UHF and  
VHF are caused by weather conditions (approaching warm fronts,  
being under a high pressure area etc.)

--  
JIM MARTIN W8AC  
co128@cleveland.freenet.edu

-----  
Date: 18 Apr 94 15:13:11 GMT  
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!swrinde!dptspd!lcz@ucbvax.berkeley.edu  
Subject: Callbook on line?  
To: info-hams@ucsd.edu

joelfr@aol.com (JoelFr) writes:

>I have used:  
> callbook@sat.datapoint.com

I plan to discontinue this email callbook server at the end of April.  
The data I'm using is very old, and I don't have the resources to keep  
it updated.

There are other callbook servers available, including ones available  
via email. I can't remember the addresses offhand, but I would  
appreciate it if someone would post their addresses to this list so I  
can include them in the responses from my server.

73/Lee, N5LYT

-----  
Date: 18 Apr 94 15:36:00 GMT  
From: news-mail-gateway@ucsd.edu

Subject: Collins museum/Cedar Rapids?  
To: info-hams@ucsd.edu

I'll be in the Waterloo/Cedar Rapids, Iowa area later this week. I have this vague recollection that there is some type of radio museum in Cedar Rapids, probably something to do with Collins Radio. Anyone know the place, days and hours it's open, etc?

Thanks. Pse reply directly to 'price@nosc.mil'.

73--Jim, K6ZH

-----  
Date: Sun, 17 Apr 1994 21:48:19 MDT  
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!alberta!ve6mgs!  
usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 17 April  
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

17 APRIL, 1994

\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\/\\

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 17 APRIL, 1994

-----  
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 107, 04/17/94  
10.7 FLUX=081.8 90-AVG=094 SSN=038 BKI=6677 4224 BAI=063  
BGND-XRAY=A4.8 FLU1=8.2E+05 FLU10=1.1E+04 PKI=7898 5334 PAI=130  
BOU-DEV=164,191,304,217,046,019,017,045 DEV-AVG=125 NT SWF=00:000  
XRAY-MAX= B1.2 @ 2131UT XRAY-MIN= A3.4 @ 0702UT XRAY-AVG= A5.3  
NEUTN-MAX= +001% @ 1930UT NEUTN-MIN= -005% @ 1325UT NEUTN-AVG= -1.8%  
PCA-MAX= +0.4DB @ 1400UT PCA-MIN= -1.2DB @ 2300UT PCA-AVG= -0.1DB  
BOUTF-MAX=55355NT @ 0251UT BOUTF-MIN=55019NT @ 0924UT BOUTF-AVG=55286NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+081,+000,+000  
GOES6-MAX=P:+170NT@ 1851UT GOES6-MIN=N:-205NT@ 0955UT G6-AVG=+100,+039,-083  
FLUXFCST=STD:095,095,090;SESC:095,095,090 BAI/PAI-FCST=030,020,020/040,025,025  
KFCST=5556 5554 3334 4333 27DAY-AP=027,018 27DAY-KP=3644 4443 4323 5333  
WARNINGS=\*GSTRM;\*AURMIDWRN;\*AURLWWCH  
ALERTS=\*\*MAJSTRM

!!END-DATA!!

NOTE: The Effective Sunspot Number for 16 APR 94 was 12.9.

The Full Kp Indices for 16 APR 94 are: 3o 6- 5o 2o 3o 3- 5- 4+

The 3-Hr Ap Indices for 16 APR 94 are: 15 64 45 8 16 14 37 31

Greater than 2 MeV Electron Fluence for 17 APR is: 1.3E+07

#### SYNOPSIS OF ACTIVITY

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Solar activity was very low. Region 7701 (N08E42) was quiet and stable, but is showing some growth with the emergence of some new spots.

Solar activity forecast: solar activity is expected to be very low.

The geomagnetic field ranged from quiet to severe storm levels for the past 24 hours. Yesterday's disturbance intensified to major to severe levels from 0000-1200UT with K's of 9 reported at some high latitude sites. NOAA/SESC received numerous reports of auroral sightings. Conditions dropped off around 1200Z and became quiet to unsettled near day's end. The greater than 2 MeV electron fluences were at high levels early in the day but dropped down to normal back-ground levels around 0500Z.

STD: Periods of intense auroral activity were sighted throughout a good portion of North America during this disturbance. Significant equatorward expansion of the auroral oval was apparent with the equatorward edge lying in the extreme northern U.S. states for a good portion of the local night. Auroral activity was officially sighted as far south as Toledo Ohio, Otis AFB in Massachusetts, Scottsbluff Nebraska and Hanford Washington (near 40 degrees north latitude). Unofficial reports and observed intensity levels indicate that activity was observed equatorward of these official sites. We received over 240 individual reports of auroral activity sightings over the last 24 hours.

Geophysical activity forecast: the geomagnetic field is expected to be at minor to major storm levels for the next 12 to 24 hours: the more disturbed periods are likely to occur during local nighttime and less disturbed during daytime hours. Conditions are likely to remain at active levels through the second and third days as a coronal hole will be in favorable position at that time.

Event probabilities 18 apr-20 apr

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 18 apr-20 apr

A. Middle Latitudes	
Active	20/40/40
Minor Storm	35/20/20
Major-Severe Storm	25/10/10
B. High Latitudes	
Active	20/35/35
Minor Storm	30/20/20
Major-Severe Storm	35/15/15

HF propagation conditions were strongly disturbed over the last 24 hours. Intense geomagnetic and auroral storming completely knocked-out transpolar and transauroral circuits during the first 18 hours of the UTC day. Middle latitudes also observed heavy signal degradation with poor to occasionally near-useless propagation. Conditions began improving after approximately 18:00 UTC with the stabilization of geophysical activity. Another favorably positioned coronal hole should continue to keep propagation conditions below-normal over most regions during the next several days.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 17/2400Z APRIL

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7700	N05W51	208	0000	BX0	04	003	BETA	
7701	N08E42	115	0120	CS0	09	004	BETA	
7702	S11E48	109	0000	AXX	00	001	ALPHA	

REGIONS DUE TO RETURN 18 APRIL TO 20 APRIL

NMBR	LAT	LO
NONE		

LISTING OF SOLAR ENERGETIC EVENTS FOR 17 APRIL, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
0924	0924	0925							130

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 17 APRIL, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
NO EVENTS OBSERVED								

INFERRED CORONAL HOLES. LOCATIONS VALID AT 17/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS									
EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN	
NO DATA AVAILABLE FOR ANALYSIS									

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
16 Apr:	0419	0425	0429	B1.0						
	0730	0735	0739	B1.3						
	1333	1339	1344	B2.3	SF	7701	N07E62			

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7701:	0	0	0	1	0	0	0	0	001	(33.3)
Uncorrelated:	0	0	0	0	0	0	0	0	002	(66.7)

Total Events: 003 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
NO EVENTS OBSERVED.								

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After.

All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: Mon, 18 Apr 1994 14:49:19 GMT  
From: ihnp4.ucsd.edu!pacbell.com!att-out!cbfsb!cbnewsf.cb.att.com!  
cropley@network.ucsd.edu  
Subject: HELP: Building circuit (11/93 QST) field effect trans (fet) question?  
To: info-hams@ucsd.edu

Need some electronics help. I'm building a project from the Nov. issue (1993) of QST. (the circuit for your car which help protect your radio) (page 72 I believe).

I undertand transitors (base,collector,emiter) however this circuit requires a field-effect-transitor (fet) they use Source, Gate and Drain for each lead. I wanted to verify my guess.

source goes to ground. gate is the input side, drain is the output.

looks like a neat little circuit. I also added a replaceable fuse to the circuit board.

thanks,

andy cropley

acropley@attmail.att.com



-----  
Date: 14 Apr 94 23:49:46 GMT  
From: agate!howland.reston.ans.net!EU.net!sunic!ugle.unit.no!trane.uninett.no!  
nac.no!ifi.uio.no!wabbit.cc.uow.edu.au!news.ci.com.au!metro!ipso!  
rwc@ucbvax.berkeley.edu  
Subject: IPS Daily Report - 14 April 94  
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT  
ISSUED AT 14/2330Z APRIL 1994 BY IPS RADIO AND SPACE SERVICES  
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.  
SUMMARY FOR 14 APRIL AND FORECAST UP TO 17 APRIL

IPS Warning 11 will be issued later today.  
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#### 1A. SOLAR SUMMARY

Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 079/019

#### 1B. SOLAR FORECAST

	15 April	16 April	17 April
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 080/020

#### 1C. SOLAR COMMENT

None.  
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#### 2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: mostly unsettled, with brief  
active to minor storm periods 09-15UT.

Estimated Indices : A	K	Observed A Index 13 April
Learmonth	20 3334 5333	
Fredericksburg	20	24
Planetary	25	25

Observed Kp for 13 April: 3454 3444

#### 2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
15 Apr	15	Unsettled.
16 Apr	20	Unsettled.
17 Apr	45	Active to minor storm.

2C. MAGNETIC COMMENT  
None.

3A. GLOBAL HF PROPAGATION SUMMARY  
LATITUDE BAND

DATE	LOW	MIDDLE	HIGH
14 Apr	normal	fair-normal	poor-fair

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST  
LATITUDE BAND

DATE	LOW	MIDDLE	HIGH
15 Apr	normal	fair-normal	poor-fair
16 Apr	normal	fair-normal	poor-fair
17 Apr	normal	normal	fair

3C. GLOBAL HF PROPAGATION COMMENT  
NONE.

-----  
4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY  
MUFs at Sydney were near normal to 15% depressed.

Observed T index for 14 April: 22

Predicted Monthly T Index for April is 40.

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
15 Apr	20	Near predicted monthly values/depressed 15%.
16 Apr	25	Near predicted monthly values/depressed 15%.
17 Apr	30	Near predicted monthly values.

4C. AUSTRALIAN REGION COMMENT  
None.

--  
IPS Regional Warning Centre, Sydney | IPS Radio and Space Services  
email: rwc@ips.oz.au fax: +61 2 4148331 | PO Box 5606  
RWC Duty Forecaster tel: +61 2 4148329 | West Chatswood NSW 2057  
Recorded Message tel: +61 2 4148330 | AUSTRALIA

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Date: 18 Apr 94 13:30:50 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: multimode controllers  
To: info-hams@ucsd.edu

I have another multimode controller question. I've heard an unconfirmed rumor that the AEA PK232 is easily upgradable to 9600 baud packet, while the KamPlus cannot and will not support 9600 baud. Is this true?

tnx es 73 de Steve KB2PWM

-----  
Date: 18 Apr 1994 15:22:30 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!  
vixen.cso.uiuc.edu!usenet.ucs.indiana.edu!master.cs.rose-hulman.edu!  
news@network.ucsd.edu  
Subject: radio in caves  
To: info-hams@ucsd.edu

howdy

Question: What would be the best band for radio communication inside of caves.

=====

Don;

Write to the NSS. (Does it still exist?) There was an article on this quite a while back.

73 de Jack, K9CUN (used to be spelunker)

-----  
Date: Sun, 17 Apr 1994 07:23:35 -0500  
From: galileo.cc.rochester.edu!ee.rochester.edu!rochgte!UUCP@cs.rochester.edu  
Subject: Repeaters in Monterey area?  
To: info-hams@ucsd.edu

hl> We will be taking a trip to Monterey sometime so I'm looking for  
hl> info on open 2m repeaters in that area. We will also be in Solvang so  
hl> info for that area would also be appreciated.

I can't help you on the Monterey part, but I can with Solvang. The problem with it is it's in a valley that isn't served by repeaters too well. You can't hit any of the machines in Santa Barbara, at least no one I've talked to can. There is one that would probably work though, and that's 145.18-, there's a PL of 131.8 I believe. There are several

machines in Solvang and a couple in Lompoc that may be of interest. They are:

146.895 - (No PL)  
147.210 + (No PL)  
145.120 - (PL 100.0)  
145.420 - (No PL)  
147.120 + (No PL)

That's what the repeater directory has. .120 is interesting because it's part of the WALA link which runs from King City to San Diego and out to the desert.

Hope this helps...

... RAM DISK is NOT an installation procedure!

-----  
Date: 15 Apr 94 02:27:20 GMT  
From: agate!howland.reston.ans.net!cs.utexas.edu!swrinde!ihnp4.ucsd.edu!  
library.ucla.edu!news.ucdavis.edu!csus.edu!netcom.com!marcbg@ucbvax.berkeley.edu  
Subject: SAREX element set 4/14/94 at 0:40 UTC  
To: info-hams@ucsd.edu

Greenbelt, MD, 4/14/94 at 0:40 UTC

The official SAREX element set at this time is GSFC-016. This element set was generated by Ron Parise, WA4SIR, of the Goddard Space Flight Center. Gil Carman, WA5NOM, reports that the predictions using GSFC-016 were 6 seconds earlier than GSFC-014 as of 15:00 UTC on 4/13.

STS-59

1	23042U	94020A	94103.28423883	0.00019321	11073-4	10308-4	0	169
2	23042	56.9943	245.4685	0009256	288.8199	71.1887	16.21374060	631

Satellite: STS-59

Catalog number: 23042

Epoch time: 94103.28423883 (13 APR 94 06:49:18.24 UTC)

Element set: GSFC-016

Inclination: 56.9943 deg

RA of node: 245.4685 deg Space Shuttle Flight STS-59

Eccentricity: 0.0009256 Keplerian Elements

Arg of perigee: 288.8199 deg

Mean anomaly: 71.1887 deg

Mean motion: 16.21374060 rev/day Semi-major Axis: 6593.9561 Km

Decay rate: 0.19E-03 rev/day\*2 Apogee Alt: 221.67 Km

Epoch rev: 63 Perigee Alt: 209.46 Km

NOTE:

This element set is based on NORAD element set # 016.  
The spacecraft has been propagated to the next ascending  
node, and the orbit number has been adjusted to bring it  
into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

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Marc Grant Voice Mail: 214-246-1150  
home: marcbg@netcom.com work: marcbg@esy.com Amateur Radio N5MEI

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Date: Mon, 18 Apr 1994 12:49:40 GMT  
From: netcomsv!netcom.com!marcbg@decwrl.dec.com  
Subject: STS-59 mission extended  
To: info-hams@ucsd.edu

Greenbelt, MD, 4/17/94 at 15:40 UTC

The STS-59 mission has been extended by one day. Landing is now set for  
15:53 UTC on Tuesday April 19. This extension day provides an additional  
day of SAREX operations for those interested in making a SAREX contact.

The official SAREX element set for today is still JSC-021. This element  
set was generated by Gil Carman, WA5NOM, of the Johnson Space Flight Center.

STS-59

1 23042U 94020A 94105.62622017 .00203357 11079-4 10947-3 0 213  
2 23042 56.9933 234.1397 0007233 279.9940 80.0358 16.22652200 1014

Satellite: STS-59

Catalog number: 23042

Epoch time: 94105.62622017 = (15 APR 94 15:01:45.42 UTC)

Element set: 021

Inclination: 56.9933 deg

RA of node: 234.1397 deg Space Shuttle Flight STS-59

Eccentricity: .0007233 Keplerian Element set JSC-021

Arg of perigee: 279.9940 deg from NASA flight Day 7 vector

Mean anomaly: 80.0358 deg

Mean motion: 16.22652200 rev/day G. L. Carman

Decay rate: 2.03357e-03 rev/day^2 NASA Johnson Space Center

Epoch rev: 101

Checksum: 271

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

--

Marc Grant  
home: marcbg@netcom.com      work: marcbg@esy.com      Voice Mail: 214-246-1150  
Amateur Radio N5MEI

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Date: 18 Apr 1994 15:21:33 GMT  
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!  
usenet.ucs.indiana.edu!master.cs.rose-hulman.edu!news@network.ucsd.edu  
Subject: What's the best freq for underground radio?  
To: info-hams@ucsd.edu

Question: What would be the best band for radio communication inside  
of caves.

=====

Don;

Write to the NSS. (Does it still exist?) There was an article on this  
quite a while back.

73 de Jack, K9CUN (used to be spelunker)

-----

Date: 18 Apr 1994 15:21:53 GMT  
From: ihnp4.ucsd.edu!swrindc!cs.utexas.edu!howland.reston.ans.net!  
vixen.cso.uiuc.edu!usenet.ucs.indiana.edu!master.cs.rose-hulman.edu!  
news@network.ucsd.edu  
Subject: What's the best freq for underground radio?  
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howdy

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of caves.

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Write to the NSS. (Does it still exist?) There was an article on this  
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73 de Jack, K9CUN (used to be spelunker)

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End of Info-Hams Digest V94 #430

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